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APPLICATION NO. FILING DATE FIRST NAMED INVENTOR ATTORNEY DOCKET NO. CONFIRMATION NO. 10/769,346 01/30/2004 M.C. Chang 67,200-1136 8352 7590 05/25/2006 EXAMINER TUNG & ASSOCIATES NGUYEN, TUAN H Suite 120 838 West Long Lake Rd. Bloomfield Hills, MI 48302 ART UNIT PAPER NUMBER 2813					
7590 05/25/2006 EXAMINER TUNG & ASSOCIATES Suite 120 838 West Long Lake Rd. ART UNIT PAPER NUMBER	APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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Suite 120 838 West Long Lake Rd. ART UNIT PAPER NUMBER	7	590 05/25/2006		EXAM	INER
838 West Long Lake Rd. ART UNIT PAPER NUMBER	TUNG & ASSOCIATES			NGUYEN, TUAN H	
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	838 West Long Lake Rd.			ART UNIT	PAPER NUMBER
				2813	

DATE MAILED: 05/25/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

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	Application No.	Applicant(s)	
	10/769,346	CHANG ET AL.	
Office Action Summary	Examiner	Art Unit	
	Tuan H. Nguyen	2813	
The MAILING DATE of this communication a Period for Reply	appears on the cover she	t with the correspondence address	
A SHORTENED STATUTORY PERIOD FOR REI WHICHEVER IS LONGER, FROM THE MAILING - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by sta Any reply received by the Office later than three months after the ma earned patent term adjustment. See 37 CFR 1.704(b).	DATE OF THIS COMMI 1.136(a). In no event, however, m iod will apply and will expire SIX (6) tute, cause the application to become	JNICATION. ay a reply be timely filed MONTHS from the mailing date of this communication ne ABANDONED (35 U.S.C. § 133).	
Status			
1)⊠ Responsive to communication(s) filed on 30) January 2004.		
2a) This action is FINAL . 2b) ⊠ T	his action is non-final.		
3) Since this application is in condition for allow			S
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935	C.D. 11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-20 is/are pending in the application	ion.		
4a) Of the above claim(s) is/are without	drawn from consideration		
5) Claim(s) 13 and 16-20 is/are allowed.			
6)⊠ Claim(s) <u>1-12, 14, 15</u> is/are rejected.			
7) Claim(s) is/are objected to.	41		
8) Claim(s) are subject to restriction an	d/or election requiremen	•	
Application Papers			
9)☐ The specification is objected to by the Exam	niner.		
10)☐ The drawing(s) filed on is/are: a)☐ a	accepted or b)⊡ objecte	d to by the Examiner.	
Applicant may not request that any objection to			
Replacement drawing sheet(s) including the cor			(d).
11) The oath or declaration is objected to by the	e Examiner. Note the atta	ched Office Action of John P10-132.	
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for fore a) All b) Some * c) None of:	eign priority under 35 U.S	.C. § 119(a)-(d) or (f).	
 Certified copies of the priority docum 			
2. Certified copies of the priority docum			
3. Copies of the certified copies of the			
application from the International Bu	·		
* See the attached detailed Office action for a	list of the certified copies	THOUTECEIVEU.	
Attachment(s)]		
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Review (PTO-948)) Pap	view Summary (PTO-413) er No(s)/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/SE Paper No(s)/Mail Date	′	ce of Informal Patent Application (PTO-152)	

DETAILED ACTION

Claim Rejections - 35 USC § 112

Claims 1-12, 14, 15 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claims 1, 12 are incomplete, since it is unclear as to how could a <u>free standing</u> micro-structural member be formed when the final resist portion is still existed under the structural material layer?

In claims 1, 12 are indefinite, since it is unclear as to where the second resist layer is formed. The free standing micro-structure would not be formed if the second resist were formed on the side of the first resist layer.

In claim 2, line 2, "comprises one of a prior or at least ..." is confusing.

Clarification is requested.

In claim 4, "the ultraviolet light" lacks antecedent basis, should claim 4 depends on claim 3?

In claims 5, 6, 7, last lines, "the hard bake" lacks antecedent basis, it is unclear as to whether first or second hard bake is referred to.

In claim 8, line 1, "the first smaller volume", and line 2, "the desired final resist portion volume" lack antecedent basis.

In claim 9, "the step of removing resist" lacks antecedent basis.

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In claims 14, 15, "the deep UV irradiation" and "the thermal heating period" lack antecedent basis, since claim 13 does not provide support for these limitations in the second curing process.

Allowable Subject Matter

Claims 13, 16-20 are allowed.

The following is an examiner's statement of reasons for allowance: None of the references of record teaches or suggests the claimed method for forming a free standing micro-structural member including the first and second curing processes to harden the first resist portion and form a final resist portion volume respectively for a subsequent steps of depositing the structural material layer and removing the final resist portion.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Hwang et al., Choi et al., Rangarajan et al. are cited as of interest.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan H. Nguyen whose telephone number is 571-272-1694. The examiner can normally be reached on 9AM-5:30PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Carl Whitehead Jr. can be reached on 571-272-1702. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Tuan H. Nguyen Primary Examiner Art Unit 2813

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